11006

MLI TECHNOLOGY IMPLEMENTATION

PROJECT OBJECTIVE:

DESIGN, BUILD AND OPERATE MLI CARBON LABORATORY EQUIPMENT AND EVALUATE SODERBERG ANODE COMPOSITES TO SUPPORT THE COLUMBIA FALLS CONVERSION TO MLI TECHNOLOGY.

KEY ISSUES:

- WHAT ARE THE BAKED APPARENT DENSITY, ELECTRICAL RESISTIVITY, EXPANSION/SHRINKAGE, COMPRESSIVE STRENGTH, AND CO_2 REACTIVITY VALUES MEASURED ON CARBON COMPOSITES MADE WITH MLI LABORATORY METHODS USING STANDARD COLUMBIA FALLS RAW MATERIALS?

- HOW DOES OPTIMUM PITCHING LEVEL DEMONSTRATED IN THE LABORATORY USING MLI METHODS RELATE TO PLANT OPERATIONS?

- WHAT IS THE OPTIMUM PITCHING LEVEL AS A FUNCTION OF COKE POROSITY?